# **DEQ In-water Proposal**

## **Objective**

Expedite sediment cleanup

#### **Criteria for Site Selection**

- Relatively simple sites
- Upper portion of Study Area
- Environmental justice concerns
- Cooperative performing parties

#### **Candidate Sites**

- •RM11E
- •Willamette Cove



SEMS 295994

## **DEQ NWR Cleanup Program Staffing**

# Keith Johnson CU, Site Assessment, Spills

- •Dan H Leadworker, PM, hydro\*
- •Matt M Leadworker, PM
- •Dana B PM, hydro
- •Ken T PM, hydro
- •Cindy R PM, tox
- •Scott M PM
- •Debbie B PM
- •Alex L PM
- •Anna C PM
- •Dave L PM
- •Jim O PM
- •Mike G PM
- •Mike R PM
- •Shawn R PM
- •Rebecca WA PM
- •Gerald G Admin
- Dawn W Admin

# **Kevin Parrett CU and Leaking USTs**

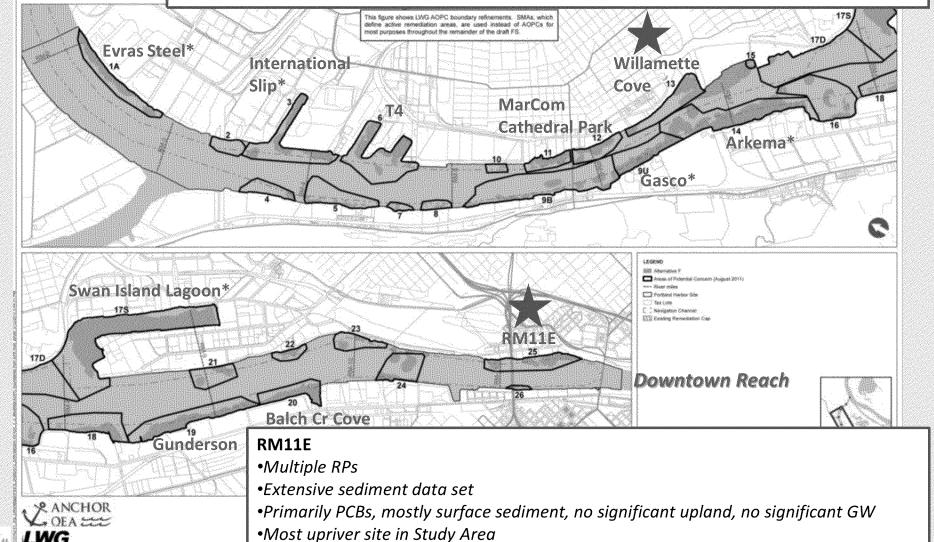
- •Chuck H Leadworker, PM\*
- •Jeff S Leadworker, PM
- •Jen S PM, sediments\*
- •Henning L PM, hydro
- •Bob W PM, hydro
- •Ken C PM, hydro
- •Tom G PM, Eng
- •Erin M PM, Eng
- •Mike P HH Tox
- •Jen P Eco Tox
- •Mark P PM
- •Sarah M PM
- •Rob H PM
- •Kevin D PM
- •Brent F Admin



# Major Areas of Contamination

#### Willamette Cove

- •Opportunity to work with single lead RP on multi-PRP site
- •Fairly complicated site: significant upland and riverbank contamination; NRDA restoration opportunities and not well defined nature and extent of contamination
- •Env Justice issues: trespass and homeless camps, and high community interest for action
- •Port of Portland interested in expediting integration of NRDA restoration and cleanup remedy





•RPs have previously expressed interest in expedited cleanup. Current interest unknown

## Potential Schedule for DEQ Oversight of In-water - RM11E

	Duration	2015	2016	2017	2018	2019	2020
Task	(months)	Q1 Q2 Q3 Q4	Q1 Q2 Q3 Q4	Q1 Q2 Q3 Q4	Q1 Q2 Q3 Q4	Q1 Q2 Q3 Q4	Q1 Q2 Q3 Q4
EPA Milestones to ROD	<u>36</u>						
- EPA Provides Remedy Concept to DEQ and Partners (June 2015)		X				100	
- NRRB Mtg on Remedy Concept (Nov 2015)		Х					
- EPA Issues Proposed Plan (Early 2016)		100	X				
- EPA Issues ROD (Late 2017)				X			
DEQ Schedule for In-water Proposal - State Authority	<u>58</u>	Remedy Selec	tion	Remedial I	Design	RA1	RA2*

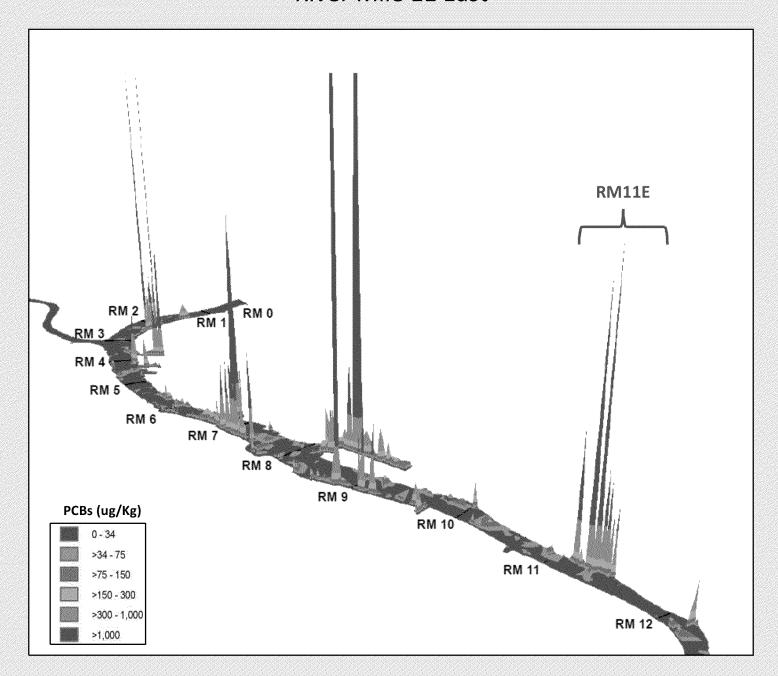
- Anticipated construction completion Oct 2019
- •DEQ issues site-specific ROD under Oregon regulatory authority (OAR 340-122-090)
- Performing parties conduct RD/RA under DEQ oversight under consent judgment
- •Remedy would be consistent with but not necessarily identical to EPA PH ROD
- •Need close coordination with EPA and stakeholders throughout process
- Risk to performing parties is that RD/RA expenditures may be wasted if EPA ultimately does not approve work
- •Performing parties will eventually want liability release from EPA



## Potential Schedule for DEQ Oversight of In-water – RM11E

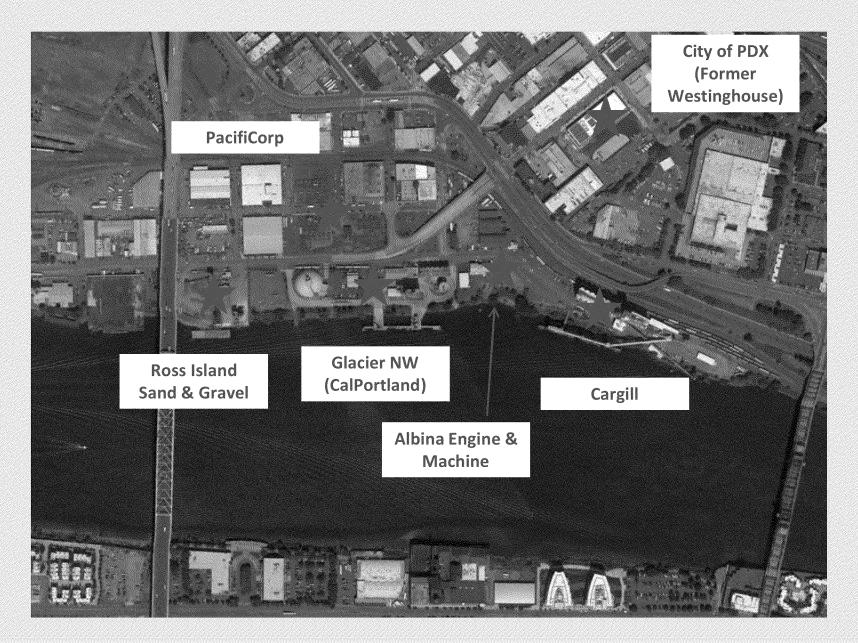
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Task	(months)	Q1 Q2 Q3 Q4	Q1 Q2 Q3 Q4	Q1 Q2 Q3 Q4	Q1 Q2 Q3 Q4	Q1 Q2 Q3 Q4	Q1 Q2 Q3 Q
EPA Milestones to ROD	<u>36</u>						
- EPA Provides Remedy Concept to DEQ and Partners (June 2015)		X					
- NRRB Mtg on Remedy Concept (Nov 2015)	-	X					
- EPA Issues Proposed Plan (Early 2016)			X				
- EPA Issues ROD (Late 2017)				X			
DEQ Schedule for In-water Proposal - State Authority	<u>58</u>	Remedy Selec		Remedial	Design	RA1	RA2*
REMEDY SELECTION	18	Remedy Selec	tion				
DEQ Negotiates Consent Order with Performing Parties	6	Order					
CERCLA/Oregon Feasibility Study Bridge Document (not needed for RM11E)		MODERN PROPERTY.					
DEQ Prepares Staff Report (Proposed Plan) under OAR 340-122-0090	9	Staff R	pt				
- EPA reviews draft report (4 wks)		X					
- Resolve EPA comments (2 wks)			x				
- Revise draft report (2 wks)			X				
- Provide draft to performing parties for courtesy review (2 wks)			X				
- Finalize Staff Report (4 wks)			X				
DEQ Prepares ROD	3		ROD				
- Submit public notice to Oregon Bulletin and local newpaper (4 wks)			X				
- Public comment period (4 wks)	-		X				
- Prepare ROD (4 wks)			Х				
REMEDIAL DESIGN	30			Remedial	Design		
DEQ Negotiates Consent Judgement with Performing Parties	6		Judgeme	nt			
- Negotiate with performing parties (12 wks)			X				
- Submit public notice to Oregon Bulletin and local newpaper (4 wks)			X				
- Public comment period (4 wks)	-		X				
- Finalize consent judgement and file with court (4 wks)			Х				
Permitting, Access Agreements, Additional Studies	42	Permi	tting	Permitting			
- Negotiate access agreements with landowners							
- Additional data collection and engineering studies (e.g., flood rise)							
- Permitting and ESA consultation							
Draft/Final Basis of Design Report (30% design)	12			BOD/30% RD			
- DEQ review (4 wks)				X			
- Comment resolution (4 wks)				X			
- Finalize report (4 wks)				X			
Draft Final Design Package (90% design)	9				90% RD		
- DEQ review (4 wks)					X		
- Comment resolution (4 wks)					x		
Final Design Package (plans, specs, supporting documents)	3				1009	RD	
- DEQ approves final design					X		
REMEDIAL ACTION (CONSTRUCT)	10				85.00	RA1	*RA2
Procure Construction Contractor	3				P	rocure	
Prepare Construction Documents (QAPP, Field Monitoring Plan, etc.)	6				F	ield Plans	
Contractor Sources Materials, Equipment, Subs	3	44.5				Procure	
Construct (4 month summer in-water work window)	4		The second of		and the second second	C1	
Contingent (2nd mobilization and construction)	4						*C2

## River Mile 11 East





## Site Ownership

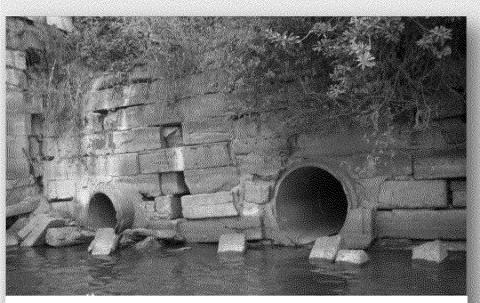




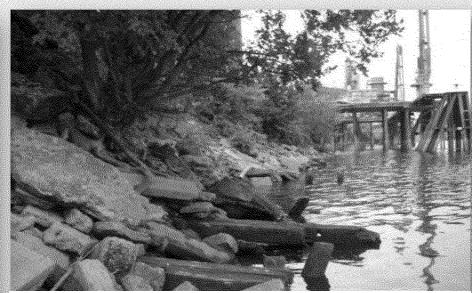
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## **Shoreline Features**

1/24/2018



City and ODOT outfalls by RIS&G Dock



Looking upriver behind CalPortland dock



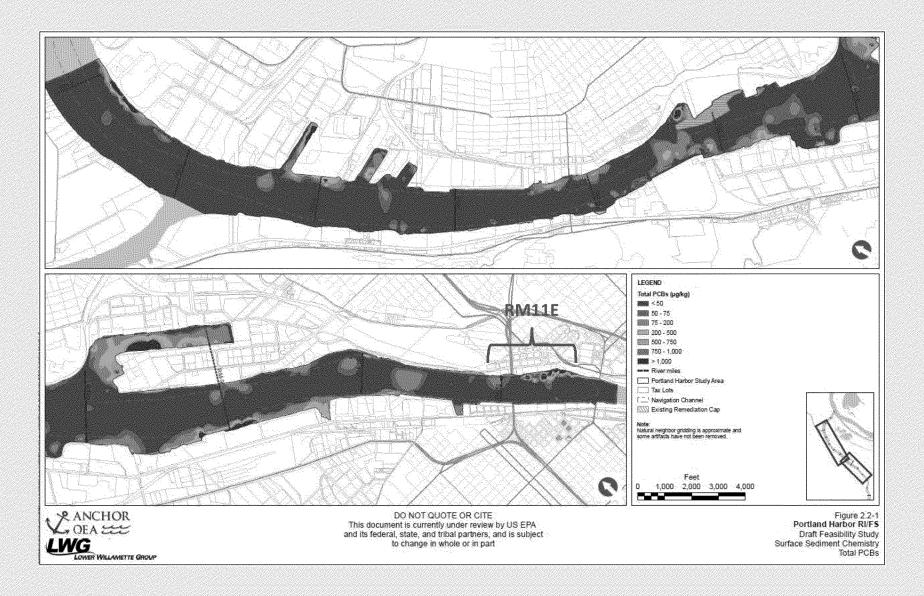
City outfall & historical crane structure



Remnant pilings behind Cargill dock

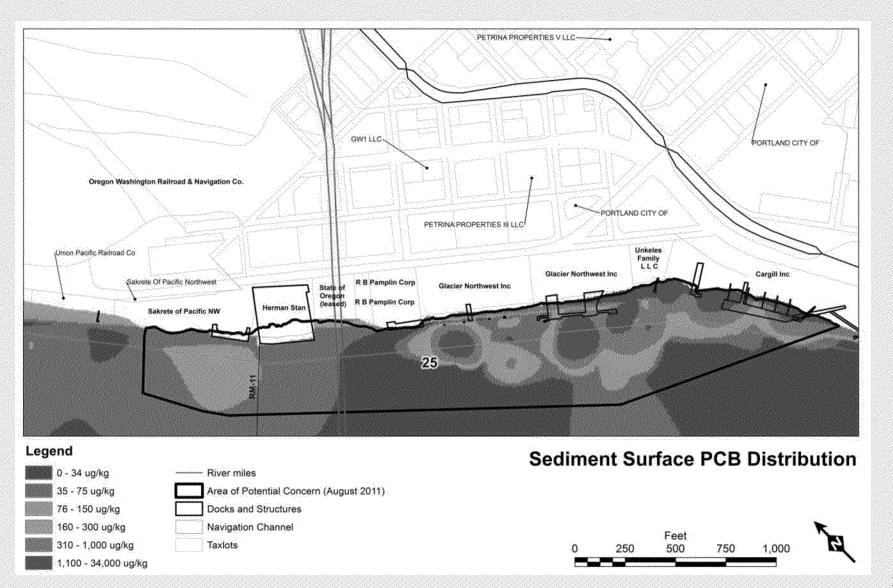
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## **PCBs** in Surface Sediment





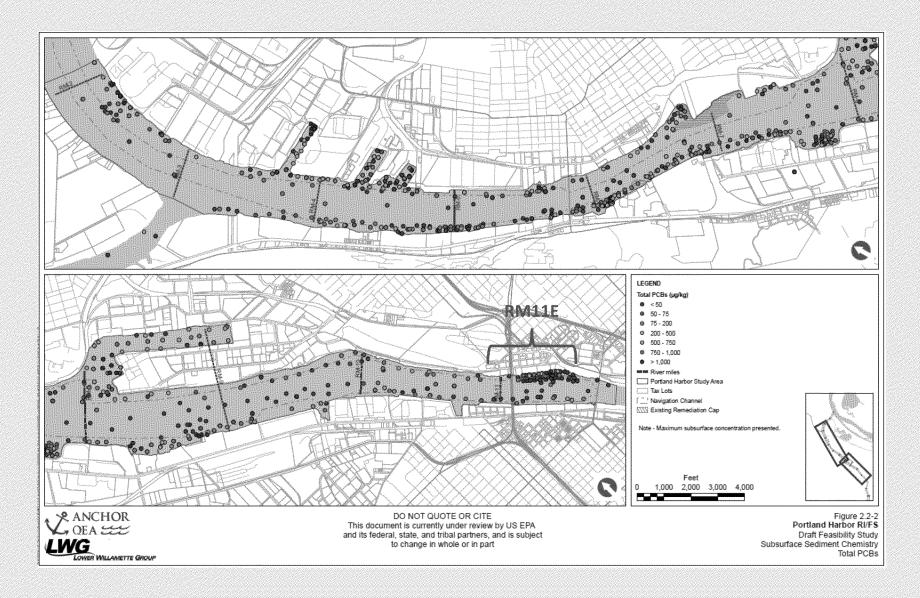
#### **PCBs** in Surface Sediment





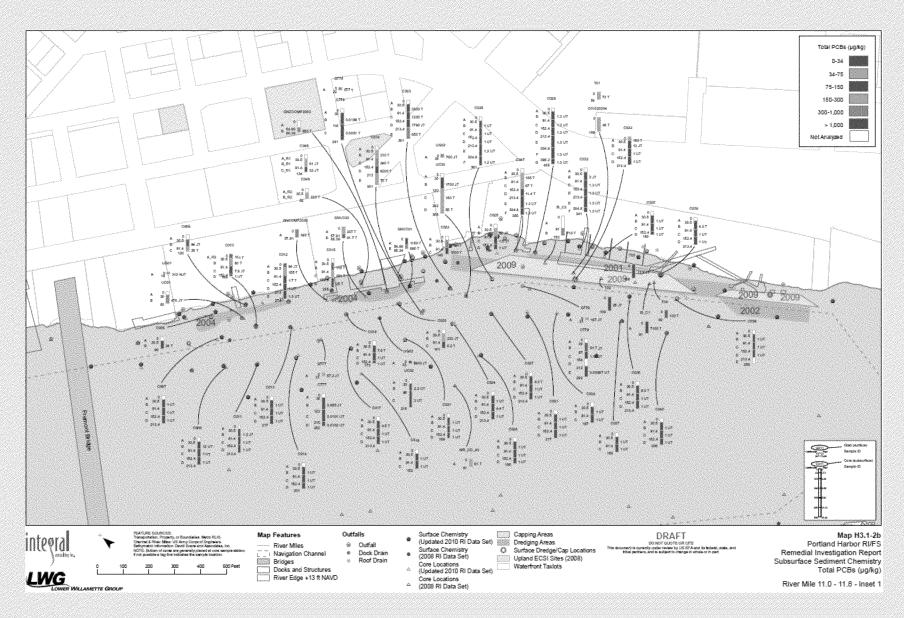
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## PCBs in Subsurface Sediment



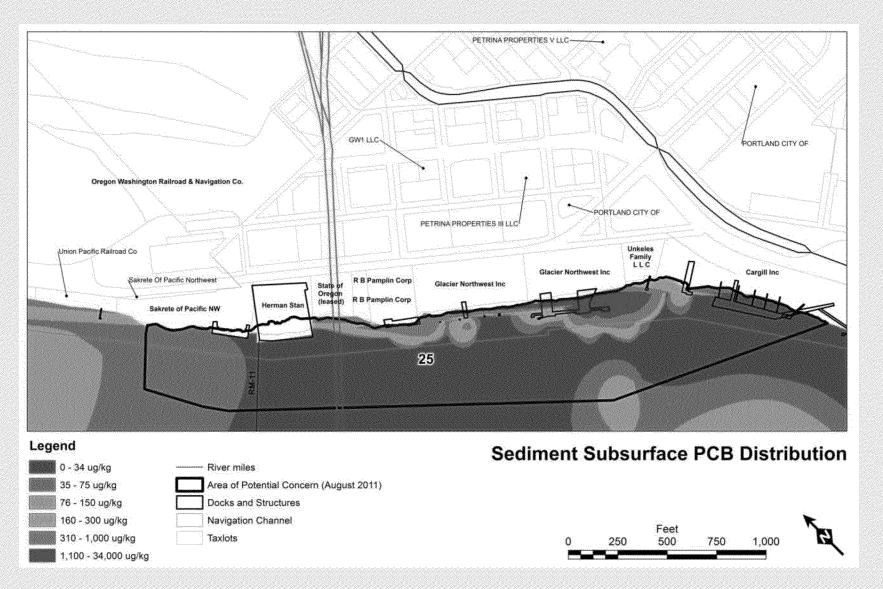


## PCBs in Subsurface Sediment



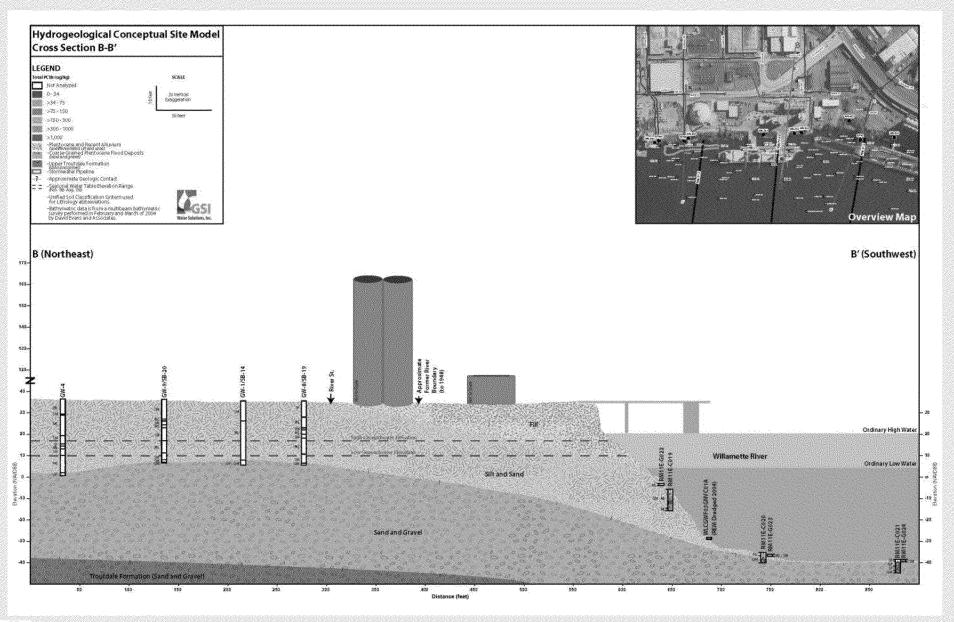


#### PCBs in Subsurface Sediment



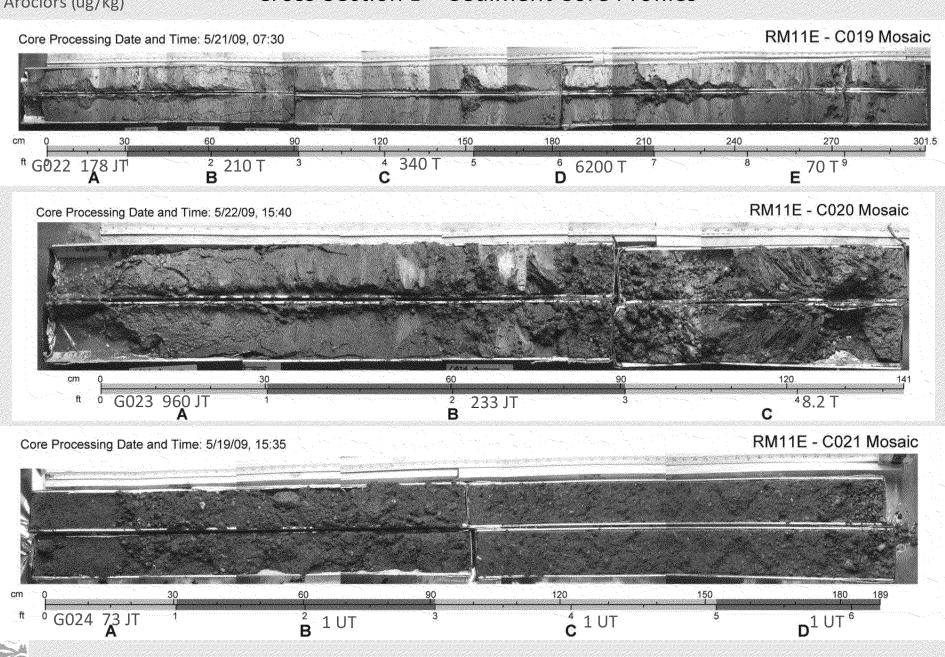


## **RM11E Cross-Section B**

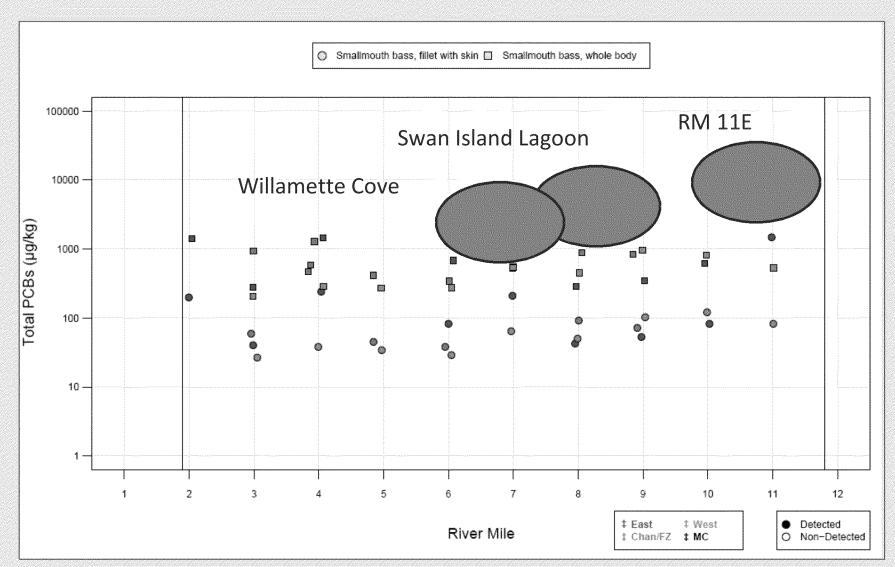




#### Cross-Section B – Sediment Core Profiles



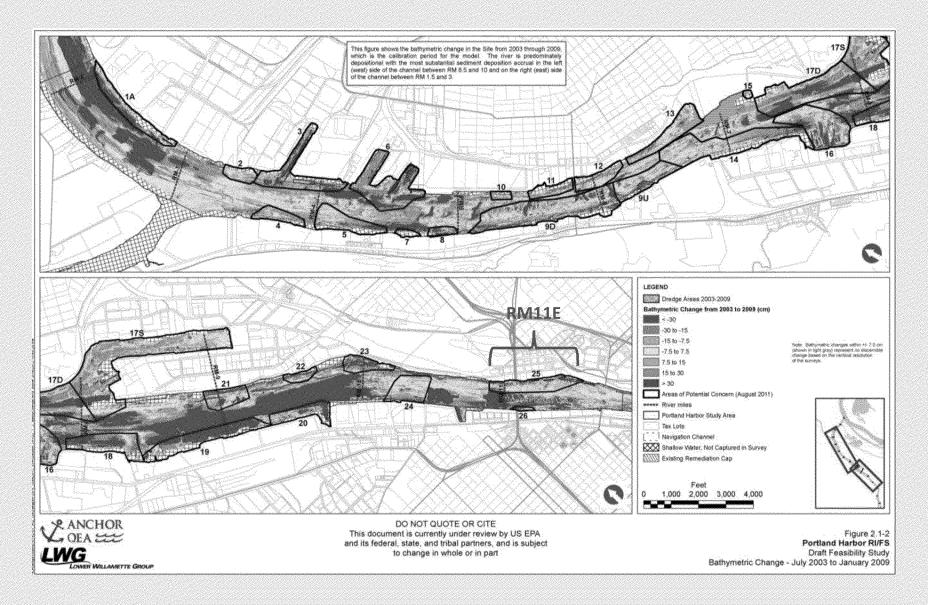
#### **PCBs in Smallmouth Bass**





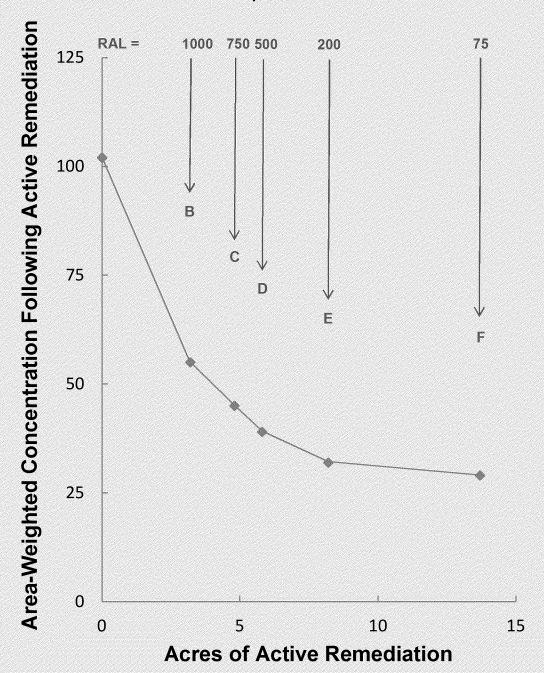
16

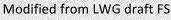
## Bathymetric Change – July 2003 to Jan 2009





## Alternatives Development – LWG Draft FS - Remedial Action Levels - PCBs



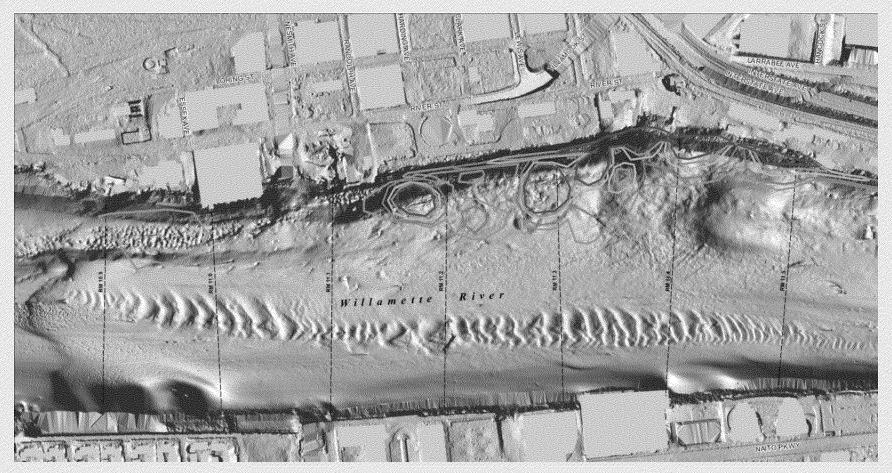


<sup>•</sup> SWAC area RM11.0 to 11.8



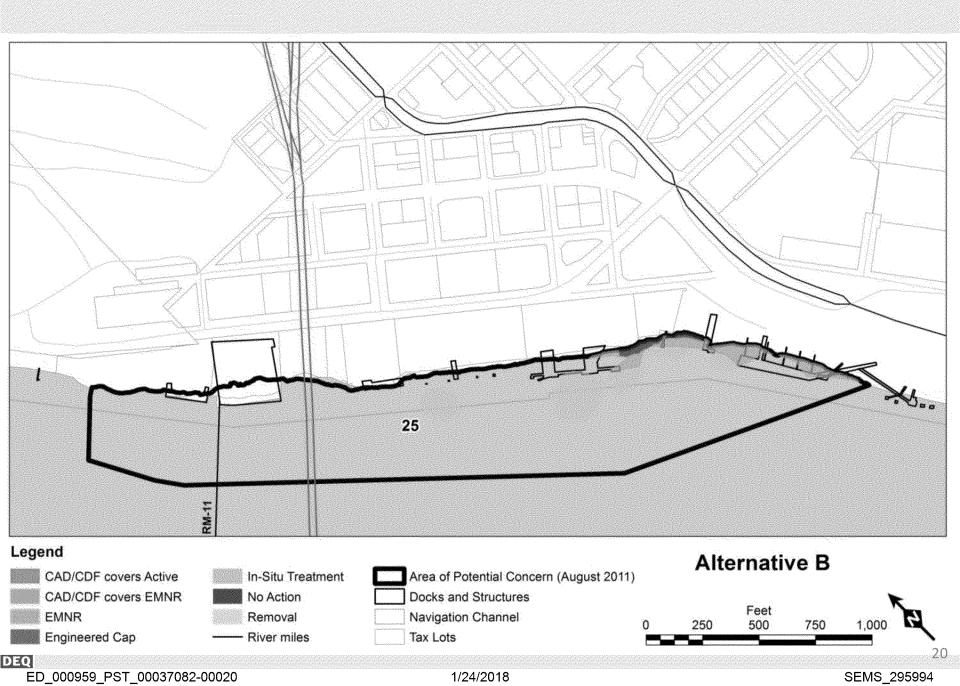
<sup>•</sup> Replacement value of 17.5 ug/kg8

## Alternatives B thru F SMAs – LWG Draft FS

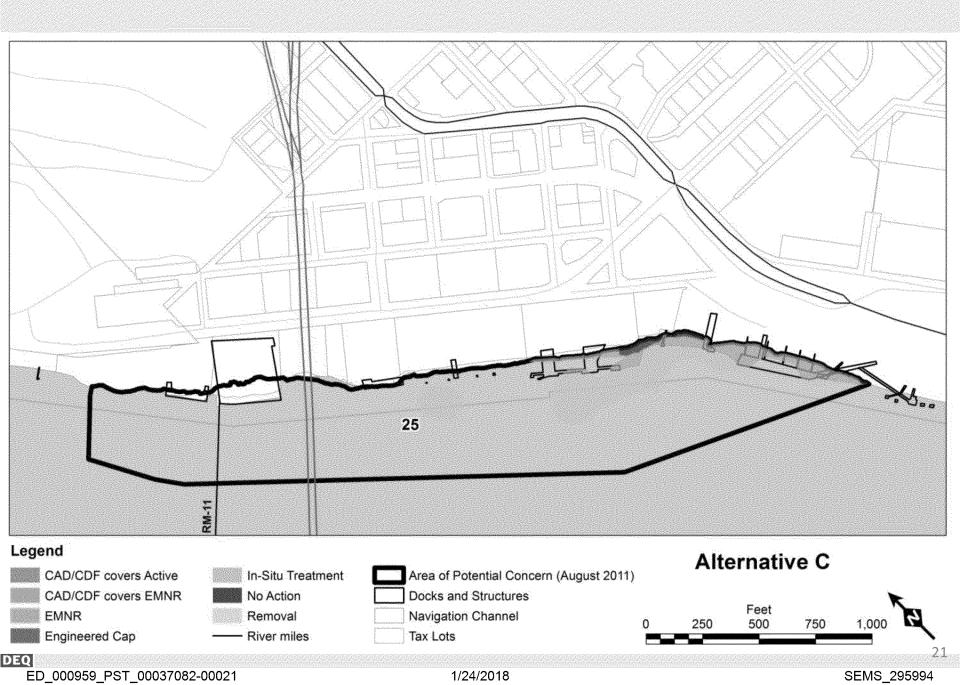


SMA 25 (RM11E)	Alt B	Alt C	Alt D	Alt E	Alt F
PCBs Remedial Action Level (RAL)	1000 ug/kg	750 ug/kg	500 ug/kg	200 ug/kg	75 ug/kg
"Integrated"	\$9M to \$12M	\$13M to \$17M	\$15M to \$21M	\$17M to \$25M	\$27M to \$37M
"Removal Focused"	\$9M to \$11M	\$12M to \$17M	\$15M to \$22M	\$16M to \$23M	\$23M to \$34M

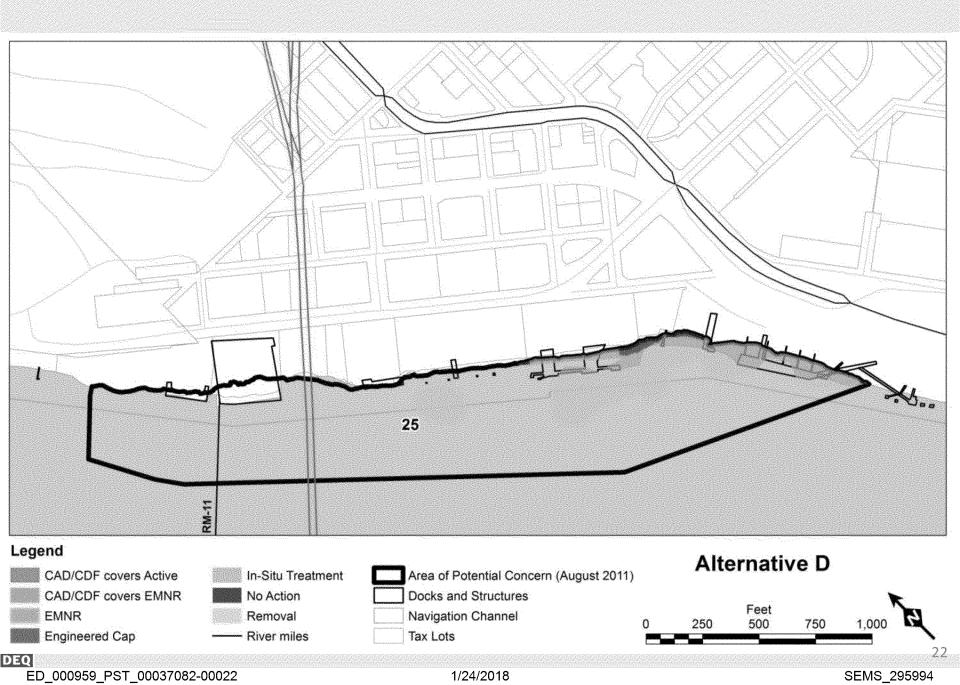
## Alt Bi Technology Assignments (PCB RAL = 1000 ug/kg) – LWG Draft FS



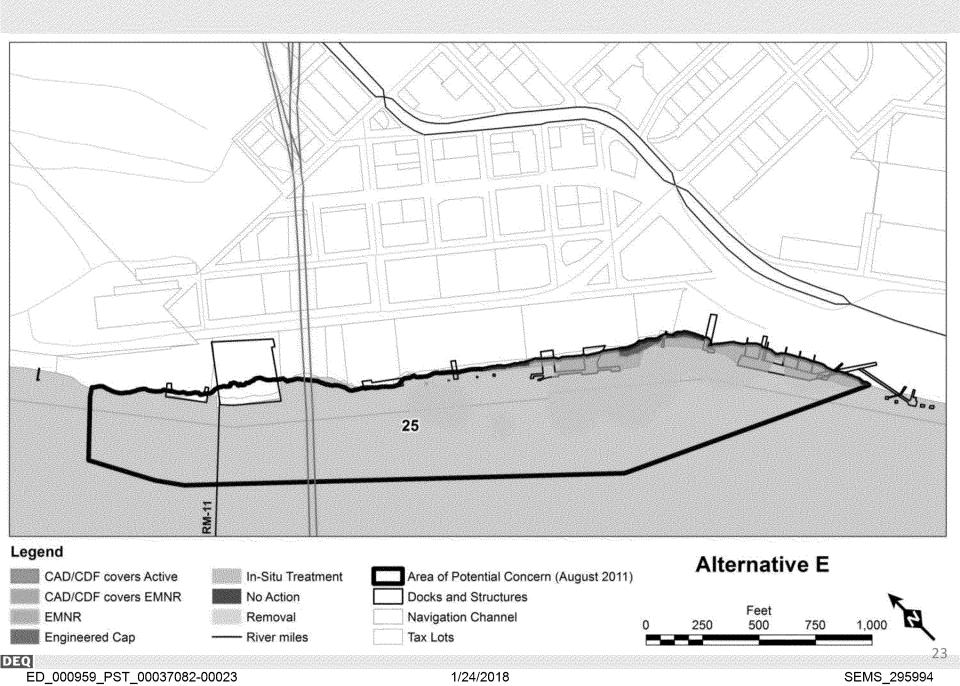
## Alt Ci Technology Assignments (PCB RAL = 750 ug/kg) – LWG Draft FS



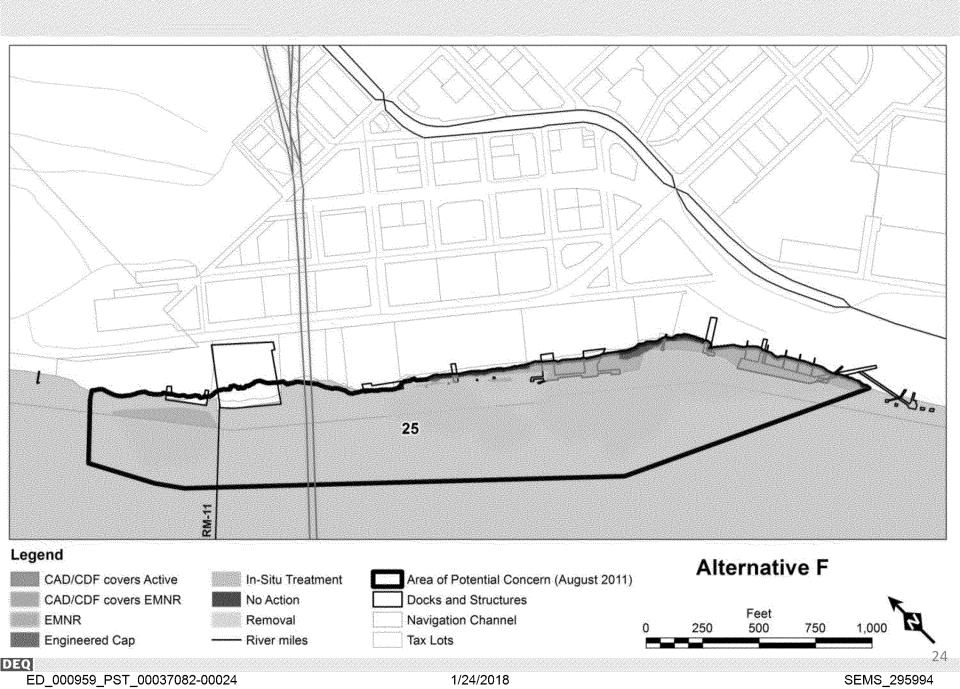
## Alt Di Technology Assignments (PCB RAL = 500 ug/kg) – LWG Draft FS



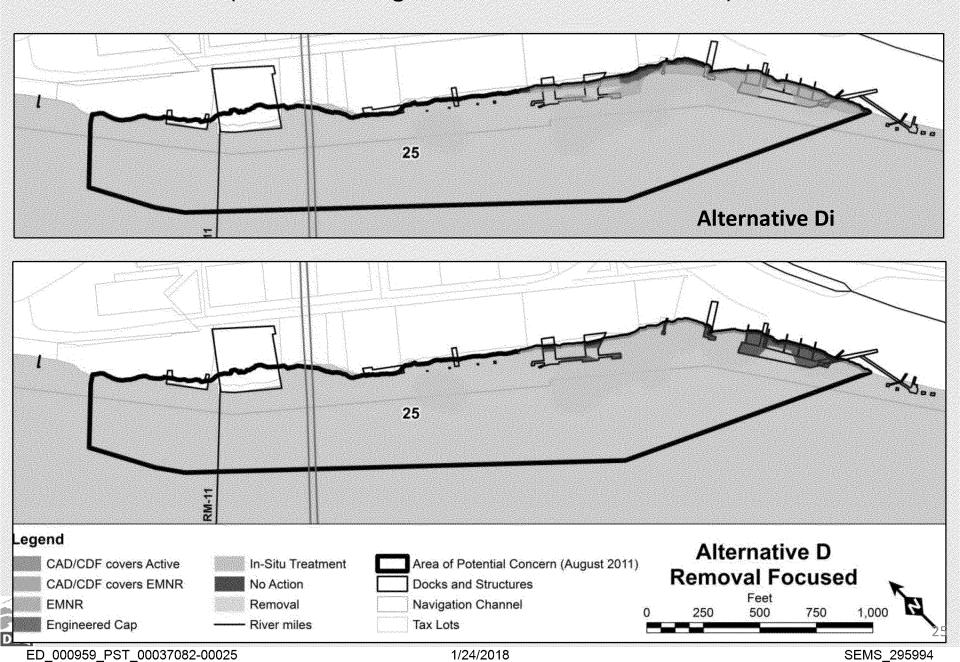
## Alt Ei Technology Assignments (PBC RAL = 200 ug/kg) – LWG Draft FS



## Alt Fi Technology Assignments (PCB RAL = 75 ug/kg) – LWG Draft FS



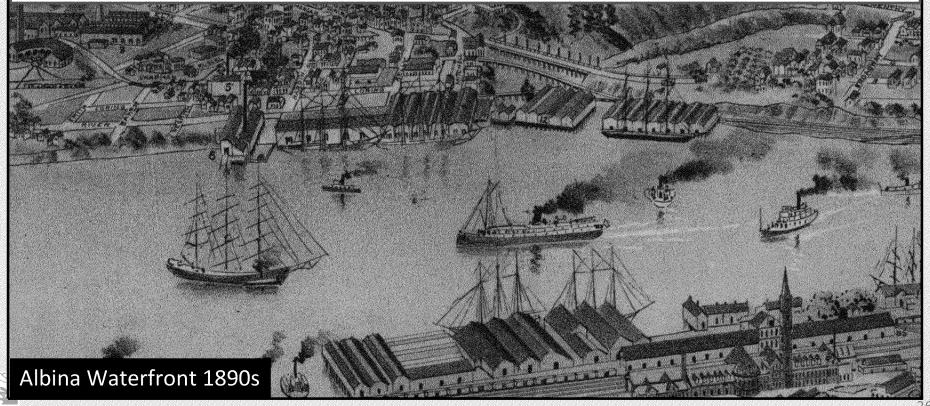
Alt Di vs Dr (similar "r" assignments for other alternatives)



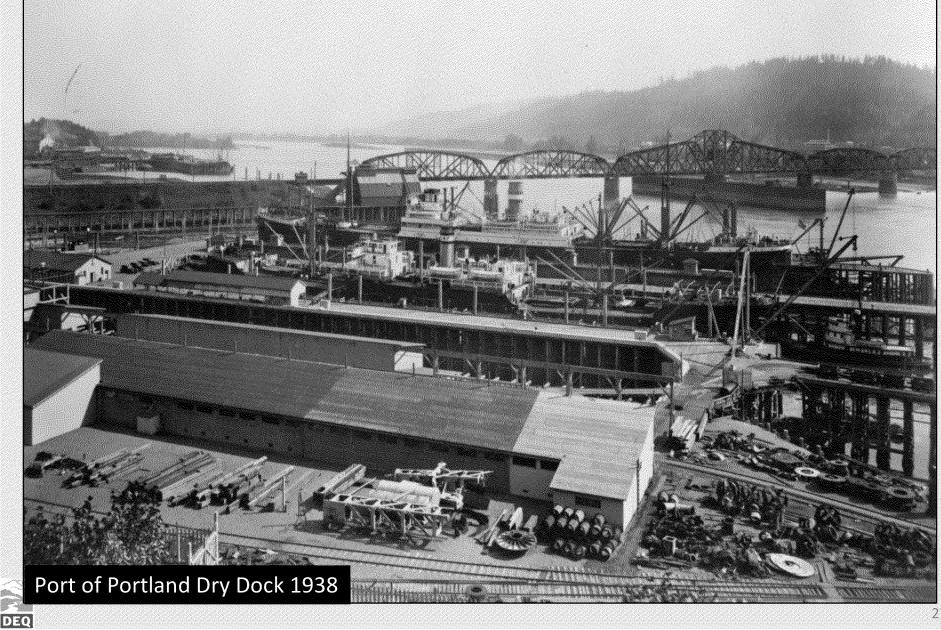
## RM11E and WC – Next Steps

#### Discuss following WC presentation

- ✓ Identify and discuss administrative constraints and options
- ✓ Seek EPA agreement of proposal for DEQ lead on RM11E and Willamette Cove
- ✓ If we reach agreement:
  - Determine approach for outreach with RM11E and WC groups, Tribes, TCT, Community, LWG, congressional delegation
  - Document EPA /DEQ agreement to move forward



## Willamette Cove – Placeholder



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